Canada Mortgage and Housing Corporation
Société canadienne d'hypothèques et de logement
CMHC Helping to house Canadians

A BUILDER'S CATALOGUE OF PUBLICATIONS AND VIDEOS

Information to help
Home Builders solve
their technical problems
and improve their
technical skills
and knowledge

Prepared for:

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Housing Corporation

By:

Scanada Consultants Limited

DRAFT

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Canadian Housing Information Centre
Centre canadien de documentation sur l'habitation

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INTRODUCTION

If you're like most home builders, there have been occasions when you've encountered a technical problem and not known immediately where to get advice on how to solve it. Or perhaps you found a quick and dirty solution but wondered where to find a better solution or, even better, a way to avoid that problem in the future. This is not an uncommon situation, despite the facts that -

- house building and house performance have been the subjects of a great deal of research, and
- most (although not all) of normal house building problems have been dealt with in a wide variety of publications.

The difficulties are twofold:

- Many such publications are highly technical and suited more to engineers than to builders.
- There are so many publications that it is very difficult for a builder to keep track of them and to determine which will best help him solve the particular problem he happens to be faced with.

This catalogue is intended to help improve this situation by helping you to find BUILDER-FRIENDLY publications and videos that provide CORRECT answers to CURRENT TECHNICAL QUESTIONS facing builders.

The listings on the following pages are the result of an extensive screening of currently available publications and videos. Only those judged to be suitable for an audience consisting primarily of builders of new housing are included. They are grouped according to the type of work with which they are mainly concerned.

The listing for each publication or video includes information on where it can be obtained. **PLEASE NOTE, MOST OF THE PUBLICATIONS AND VIDEOS LISTED HEREIN ARE NOT CMHC MATERIALS AND SHOULD BE ORDERED , NOT FROM CMHC, BUT FROM THE SOURCE INDICATED.** However, all publications and videos listed are available for LOAN from:

Canadian Housing Information Centre (CHIC)
Canada Mortgage and Housing Corporation
National Office
Montreal Road
Ottawa, Ontario
K1A 0P7

A WORD REGARDING THE CORRECTNESS OF TECHNICAL INFORMATION IN THE LISTED MATERIALS

While all materials listed in this catalogue were reviewed and an attempt was made to avoid inclusion of material containing incorrect technical advice, Canada Mortgage and Housing Corporation can not assume responsibility for the correctness of any technical advise provided in any of these materials except those published by CMHC.

PUBLICATIONS/VIDEOS DEALING WITH

GENERAL TOPICS

TITLE: ONTARIO NEW HOME WARRANTY PROGRAM CONSTRUCTION PRACTICE MANUAL

SUBJECT: new construction in general

PUBLICATION/VIDEO: publication

TYPE: 3 ring loose leaf binder, multiple paging, 350 pages

AUTHOR:

PUBLICATION DATE:

SOURCE: Ontario New Home Warranty Program
600 Eglington Avenue East
Toronto, Ontario
M4P 1P3

ABSTRACT: Deals with the various areas of complaint that ontario's New Home Warranty Program has received over the past nine years. This material is intended to be useful to home builders in Ontario (refers to the Ontario building code requirements). Subjects discussed included: foundation walls, floor framing, wood frame walls, drywall application, material storage, insulation and more...

COMMENTS: Overall coverage of areas judged to be of importance by Ontario's New Home Warranty Program. May be somewhat technical for many but recommended as good basic material.

PUBLICATIONS/VIDEOS DEALING WITH

CONCRETE AND MASONRY

TITLE: MODERN MASONRY

SUBJECT: masonry

PUBLICATION/VIDEO: publication

TYPE: hardcover, 8 1/2" x 11", 256 pages

AUTHOR: Clois E. Kicklighter

PUBLICATION DATE: 1985

SOURCE: The Goodheart-Wilcop Company Inc
South Holland
Illinois

ABSTRACT: Modern masonry describes a wide range of masonry types, anchors, ties, tools, equipment and safety, concrete fundamentals, laying masonry units, construction details and mathematics for masonry trades.

COMMENTS: Basic book on masonry including poured concrete. Apprentice's student text book. Covers lots of aspects of masonry, lots of photos & illustrations. May be too general for some contractors needs, but can provide valuable data on various masonry unit finishes, dimensions and patterns which they may wish to incorporate in their projects.

TITLE: A GUIDE TO RAIN RESISTANT MASONRY CONSTRUCTION FOR THE BRITISH COLUMBIA COASTAL CLIMATE

SUBJECT: masonry

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 X 11, 55 pages with illustrations

AUTHOR:

PUBLICATION DATE: March, 1985

SOURCE: Masonry Institute of British Columbia
471 Lougheed Highway
Burnaby, B.C.
V5C 3Z2

ABSTRACT: This publication describes ways to prevent rain penetration in masonry walls of various composition. Components discussed are the wall system, masonry units, mortar and mortar joints, flashing and coping, control joints, workmanship and coatings for masonry.

COMMENTS: Good publication for builders concerned with rain penetration in masonry. Some concerns relate to commercial solid masonry buildings but various details do apply to residential applications.

TITLE: THE COMPLETE CONCRETE, MASONRY, AND BRICK HANDBOOK

SUBJECT: concrete, masonry, brick, efflorescence, stuccoing

PUBLICATION/VIDEO: publication

TYPE: 1130 pages, soft cover, illustrated

AUTHOR: J.T. Adams

PUBLICATION DATE: 1983

SOURCE: MacMilland of Canada
Division of Cage Publishing Limited
164 Commander Boulevard
Agincourt, Ontario
M1S 3C7

ABSTRACT: This book is a comprehensive reference on concrete, masonry and brick. It contains descriptions of tools, equipment, materials requirements for the procedures, installation, repair, and maintenance of the subject discussed.

COMMENTS: Good publication intended for do-it-yourselfers but of value to builders and subtrades, an extensive detailed table of contents makes it easy to find the information required, good illustrations, some problems with solutions are described but it is mainly a basic reference publication.

TITLE: RESIDENTIAL CONCRETE

SUBJECT: concrete

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 x 11, 71 pages, soft cover

AUTHOR:

PUBLICATION DATE: 1983

SOURCE: National Association of Home Builders of the United States
15th and M Streets N.W.
Washington, D.C. 20005

ABSTRACT: This publication provides technical information to allow builders to recognize most faulty practices relating to residential concrete. Guidelines are given for ordering ready mixed concrete and admixtures are discussed. Sections on form building, jointing and basement leakage control are illustrated. Curing and curing methods are discussed along with their advantages and disadvantages. A section is devoted to concrete problems and remedies.

COMMENTS: Well presented basic practical information on concrete. Includes a section on problems and remedies to common concrete problems.

PUBLICATIONS/VIDEOS DEALING WITH

DRYWALL

TITLE: AVOIDING DRYWALL PROBLEMS

SUBJECT: drywall

PUBLICATION/VIDEO: video

TYPE: VHS 18 min. French & English

AUTHOR: CMHC

PUBLICATION DATE:

SOURCE: CMHC Builder's Workshop

ABSTRACT: Problem oriented presentation on drywall application. Specifically designed for tradesmen.

COMMENTS: Very good. To the point and not too long.

TITLE: DO YOUR OWN DRYWALL: AN ILLUSTRATED GUIDE

SUBJECT: drywall applications and repairs

PUBLICATION/VIDEO: publication

TYPE: 147 pages

AUTHOR: Arnold Kozloski

PUBLICATION DATE: 1985

SOURCE: TAB Books Inc.
P.O. Box 40
Blue Ridge Summit, PA 17214

ABSTRACT: This publication treats the subject of drywalling from a beginner's point of view and covers drywall materials, tools, estimating, application, joint finishing, repairs, mounting fixtures and textured finishes.

COMMENTS: Well illustrated, basic information for a beginner in the drywall subtrade, do-it-yourselfer oriented with step-by-step directions, last chapter refers to USA building codes and may not be in compliance with Canadian codes.

TITLE: LA POSE DES PLAQUES DE PLATRES - PROBLEMES, CAUSES ET SOLUTIONS

SUBJECT: finition, application de plaques de plâtre

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 X 11, 12 pages

AUTHOR:

PUBLICATION DATE: 1986

SOURCE: SCHL

ABSTRACT: Ce guide identifie les causes et des solutions aux problèmes reliés à la pose de plaques de plâtre (panneau de gypse, placo-plâtre) qui résultent de L'utilisation de bois vert, d'échéanciers serrés et de l'accroissement de la construction en hiver.

COMMENTS: Bref, très lisible, bonnes illustrations, du genre "Problems(causes)/solution", utile pour les constructeur et surtout pour les sous-traitants de finission intérieure.

TITLE: DRYWALL APPLICATION PROBLEMS, CAUSES AND SOLUTIONS.

SUBJECT: drywall application, nail popping, cracks, ridging, sagging or wavy ceilings

PUBLICATION/VIDEO: publication

TYPE: 9 page booklet with illustrations

AUTHOR:

PUBLICATION DATE: 1986

SOURCE: CMHC/CHBA Builders' Workshop

ABSTRACT: Attempts to identify the most common problems, probable causes and solutions with drywall which result from wetter lumber, thicker insulation, faster scheduling and increased winter construction.

COMMENTS: Brief, easy to read, good illustrations, problem/cause & solution format, useful to builders and particularly for drywall subtrades.

TITLE: USING GYPSUM BOARD FOR WALLS AND CEILINGS

SUBJECT: drywall

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 X 11, soft cover, 37 pages

AUTHOR:

PUBLICATION DATE: 1985

SOURCE: Gypsum Association
1603 Orrington Avenue
Evanston, Illinois 60201

ABSTRACT: This publication describes the various gypsum board products and applications including: supporting construction (wood & metal), single- and multi-ply application, joint and fastener treatment (problems and remedies), decorating (glossy paints, severe lighting), special construction (sound isolation, bath & shower areas).

COMMENTS: Informative, well illustrated, basic information useful to builders and the drywall subtrades, partly problem/-solution oriented but mostly of an instructional nature.

TITLE: DRYWALL CONSTRUCTION HANDBOOK

SUBJECT: drywall/interior finish/gypsum board installation

PUBLICATION/VIDEO: publication

TYPE: 5" X 8" paperback

AUTHOR:

PUBLICATION DATE: 1986

SOURCE: Canadian Gypsum Company Limited

ABSTRACT: This handbook contains detailed information on a wide range of gypsum board products and their application and installation in a variety of locations and conditions. Sound and fire protection as well as problems, causes and remedies are also treated in this handbook.

COMMENTS: Excellent source of information for the drywall trade. Although it contains lots of information pertaining to commercial applications, drywall over wood framing is discussed. Section 4 is in a "problem, cause and solution" format.

PUBLICATIONS/VIDEOS DEALING WITH

ENERGY CONSERVATION, INSULATION

TITLE: BUILDERS' GUIDE TO ENERGY EFFICIENCY IN NEW HOUSING

SUBJECT: energy conservation

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 X 11

AUTHOR: Scanada, IBI, Hooper-Angus

PUBLICATION DATE: 1975

SOURCE: HUDAC, CHBA

ABSTRACT: This guide informs builders on how to build low energy houses. It deals mainly with high R-value, airtight envelope construction, general building design and integration within its environment, doors and windows installation, heating and domestic hot water systems. A heat loss calculation method is described.

COMMENTS: Good basic information concerning low energy house construction. Portions where construction and energy costs are referred to are outdated. However, the methods of calculation as well as the information contained are still applicable and good today.

SUBJECT: ENERGY CONSERVATION, INSULATION

TITLE: LOW ENERGY HOME DESIGNS, DESIGN GUIDELINES AND PLANS FOR ENERGY EFFICIENT HOUSING

SUBJECT: low energy designs, energy conservation

PUBLICATION/VIDEO: publication

TYPE: 8 1/2" X 11"

AUTHOR:

PUBLICATION DATE: 1985

SOURCE: Alberta Agriculture
Print Media Branch
7000 - 113 Street
Edmonton, Alberta
T6H 5T6

ABSTRACT: This publication describes twenty unique house plans of different types and sizes along with tips on layout, design, siting, construction and costs. A section on "adapting a plan" is also included to modify a plan to suit particular needs.

COMMENTS: Contains a considerable amount of useful, practical advice for low-energy house builders. Directed to low energy new house builders in the prairie provinces and it is available free to Alberta builders.

TITLE: EXTERNAL INSULATION OF BASEMENTS

SUBJECT: insulation/basement insulation

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 x 11 soft cover booklet, 10 pages (mostly drawings)

AUTHOR:

PUBLICATION DATE:

SOURCE: (HUDAC) CHBA

ABSTRACT: This brochure shows a method of insulating basements from the exterior. The advantages of external placement of basement insulation, insulation levels, installation procedures are discussed.

COMMENTS: Good basic explanations on exterior basement insulation. Illustrations are clean and practical. Should be of general interest to builders.

TITLE: BUILDING PRACTICE NOTE NO.38 (38F IN FRENCH), LOW ENERGY PRAIRIE HOUSING

SUBJECT: energy conservation, low energy houses

PUBLICATION/VIDEO: publication

TYPE: brochure

AUTHOR: R.S. Dumont, H.W. Orr, M.E. Lux

PUBLICATION DATE: December, 1982

SOURCE: IRC/NRC

ABSTRACT: A plainly written account of the means by which the air leakage through the building envelope is reduced in modern prairie houses to reduce energy consumption. It also describes the levels of insulation used and the importance of solar orientation in contributing to energy reductions. By using such procedures the average energy consumption of 13 houses was reduced to about 1/3 that required for houses built prior to 1970.

COMMENTS: Contains good general information on energy saving methods and comparisons of different construction assemblies. Few illustrations(aussi disponible en français)

TITLE: GUIDE DU CONSTRUCTEUR VERS L'EFFICACITÉ ÉNERGETIQUE DANS LES LOGEMENTS NEUFS

SUBJECT: conservation d'énergie

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 x 11, 140 pages

AUTHOR:

PUBLICATION DATE: 1982 version français

SOURCE: Association Provinciale des Constructeurs d'Habitation du Québec

ABSTRACT: Ce guide informe le constructeur en matière de construction de maisons ou petits immeubles à faible consommation d'énergie. L'ouvrage porte principalement sur: - la construction de murs et de toits étanches à l'air et ayant une forte résistance thermique; - la conception générale des bâtiments et leur intégration au milieu physique; - la pose des portes et fenêtres; - le chaufage et la production d'eau chaude. Une méthode de calcul des pertes d'énergie y est décrite.

COMMENTS: Bon guide pour les constructeurs intressés à construire des maisons à faible consommation d'énergie. Les données comprenant des calculs de coût de construction ou de coût d'énergie ne sont pas nécessairement à jours. Cependant,les méthodes de calcul démontrées ainsi que les techniques de construtions démontrées sont toujours bonnes aujourd'hui.

TITLE: R-2000 - THE BETTER-BUILT HOUSE - LEARNER'S GUIDE

SUBJECT: energy efficient construction/ventilation/alternative framing techniques/energy conservation and more

PUBLICATION/VIDEO: publication

TYPE: 149 pages, soft cover, 8 1/2 x 11 book in a 3 ring binder

AUTHOR:

PUBLICATION DATE: 1987

SOURCE: TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: This learner's guide describes the principles of building physics involved in building a low energy house. The reasons and techniques for achieving a better control of the house's airtightness, techniques for achieving high R-value from the basement to the attic, and the mechanical systems required are all discussed.

COMMENTS: Smaller than the R-2000 builder's guide, produced for general public along with TO Ontario's TV program series of the same name. Of interest to builders who want to build low energy, high quality houses. Does not include the administrative and marketing details of the R-2000 program which are included in the R-2000 builders' manual.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #1 - INTRODUCTION TO ENERGY EFFICIENT HOUSING

SUBJECT: R-2000: general introduction

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: TV style program. Introductory program to a series of 20 on energy efficient housing. Discussion of 5 major aspects of R-2000 housing.

COMMENTS: Directed to contractors and the public at the same time. Clear. Easy going interview style. The series in general is loaded with reviews, good for week to week tv watching, but tiring for any concentrated viewing.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #2 - DESIGNING FOR ENERGY EFFICIENCY

SUBJECT: R-2000: Design, energy conservation

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: A TV style show. Overview and several examples of design effects on energy performance. A look at energy design by computer, HOT-2000.

COMMENTS: Good overview of design with interesting details for a contractor.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #3 - AIR AND VAPOUR FLOWS

SUBJECT: R-2000: air flow and vapour flow

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: A quick overview of vapour barriers, air barriers, air/vapour barriers.

COMMENTS: Quite general but good basic background. A bit long for contractors.

SUBJECT: ENERGY CONSERVATION, INSULATION

TITLE: R-2000 - THE BETTER BUILT HOUSE: #4 - PRINCIPLES INTO PRACTICE

SUBJECT: R-2000: planning, new materials and sequencing

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: General introduction to specialized materials for energy efficient construction with an introduction into special sequencing.

COMMENTS: Very general.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #5 - AIR BARRIER DETAILING

SUBJECT: R-2000: air barriers

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: General introduction to air barriers, polyethylene and air tight drywall, with some details.

COMMENTS: A bit long for the message.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #6
- FOUNDATIONS PART 1

SUBJECT: R-2000: foundations

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: First applications program of the 20 show series. Basic insulation and air/vapour barrier for foundations. How to upgrade conventional practices.

COMMENTS: Good overview with good examples. The show has difficulty addressing an audience somewhere between a contractor and a homeowner as it fails to address either clearly.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #7
- FOUNDATIONS PART II

SUBJECT: R-2000: wood foundations, PWF

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: A general introduction to wood foundations with some details.

COMMENTS: A good teaser to the possibility of building with wood foundations.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #8 - SINGLE STUD WALLS

SUBJECT: R-2000: framing

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: A review of construction sequencing and costs in wall construction. How to upgrade standard single stud construction.

COMMENTS: Useful program for builders looking to upgrade standard techniques.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #9 - DOUBLE STUD CONSTRUCTION

SUBJECT: R-2000: walls - double stud

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: Overview with some details of double stud construction for very high R-value walls.

COMMENTS: Good introduction to double stud construction and air barrier details

TITLE: R-2000 - THE BETTER BUILT HOUSE: #10 - PREFAB & MANUFACTURED HOUSING

SUBJECT: R-2000: Prefab & manufactured housing

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: A step by step visit through manufactured houses and assembly of prefab houses.

COMMENTS: A good introduction to the subject.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #12 - INSULATING CEILINGS AND ATTICS

SUBJECT: R-2000: roofs & attics

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: A quick study of avoiding problems with high insulation levels in roofs and attics.

COMMENTS: moderate detail.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #18 - IMPLICATIONS FOR THE TRADES PART 1

SUBJECT: R-2000: tradesmen

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: An overview of what is an R-2000 house. Developing sequencing with the trades: framers.

COMMENTS: Very general.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #19 - IMPLICATIONS FOR THE TRADES PART 2

SUBJECT: R-2000: trades sequencing

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: Discussion with various trades on sequencing & air barrier details: electrical, plumbing, drywall.

COMMENTS: Good tradesman details. Best video of the series.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #20 - MARKETING

SUBJECT: R-2000: marketing

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: The key to marketing is to sell the benefits rather than the features of an R-2000 house. Talks with homeowners and builders.

COMMENTS: good appreciation of marketing.

TITLE: ALBERTA ENERGY SAVERS SERIES

SUBJECT: varied

PUBLICATION/VIDEO: publication

TYPE: series of 5" x7" booklets from 20 to 30 pages, illustrated

AUTHOR:

PUBLICATION DATE: 1987

SOURCE: Energy Matters, 0-Zenith 22339, Edmonton 427-5300, or write:
Alberta Department of Energy
Energy Conservation Branch
2nd Floor, High Field Place
10010 - 106 Street
Edmonton, Alberta
T5J 3L8

ABSTRACT: This is a series of energy related booklets for homeowners on the following subjects and titles:- New Homes, - Attic Insulation, - Basement Insulation, - Caulking and Weatherstripping, - Windows, - Condensation Concerns, - Ventilating Your Home, - Water and Electricity, - Selecting a Heating System, - Passive Solar, - Heating System Maintenance.

COMMENTS: Basic information intended for homeowners. Could be useful to some builder in solving some problems or to handout to homeowners but it is not for builders looking for in depth info.

TITLE: THE AIRTIGHT HOUSE - USING THE AIRTIGHT DRYWALL APPROACH

SUBJECT: air quality, airtightness, combustion backdrafting, airtight drywall approach

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 x 11, soft cover, 83 pages

AUTHOR: James K. Lischkoff with Joseph Lstiburek

PUBLICATION DATE:

SOURCE: Iowa State University Research Foundation, Inc.

ABSTRACT: This book is divided in three sections: section 1 discusses the relationship between airtightness and controlled ventilation and their effect on energy-efficiency, moisture control, heat recovery and air quality (including concerns about combustion products venting and backdrafting). Section 2 deals with air barriers and describes "the airtight drywall approach" which does not use polyethylene. Section 3 discusses a variety of controlled ventilation strategies for an airtight house.

COMMENTS: Although from an American source it contains various references to Canadian studies and statistics. May not be suited for every builder but it contains good material for the interested and it isn't too technical.

TITLE: R-2000 BUILDERS' MANUAL

SUBJECT: R-2000, energy conservation techniques

PUBLICATION/VIDEO: publication

TYPE: loose ring binder

AUTHOR:

PUBLICATION DATE: January, 1985

SOURCE: Canadian Home Builders Association

ABSTRACT: Compilation of construction methods necessary to achieve energy conserving houses. Divided into eleven chapters on various facets of house production including administration, marketing, promotion and selling. Includes special chapters on design, construction overview, foundations, walls, attics and roofs, windows, heating and cooling, ventilation, lights and appliances. Numerous illustrations.

COMMENTS: Good basic information on how to increase levels of insulation, airtightening, and the use of efficient ventilation and heat recovery equipment to achieve energy conserving buildings.

TITLE: EASY WAYS TO APPLY STYROFOAM SM

SUBJECT: residential applications of styrofoam SM, rigid insulation

PUBLICATION/VIDEO: video

TYPE: VHS 50 min English and French

AUTHOR: DOW Chemical

PUBLICATION DATE: 1988

SOURCE: DOW Chemical, Toronto - Bob Taylor

ABSTRACT: Quick but detailed instructions for six different residential applications of styrofoam SM.

COMMENTS: good for a contractor but especially for a workman because of details.

PUBLICATIONS/VIDEOS DEALING WITH

FLOORING

TITLE: HOW TO REPLACE AND INSTALL FLOORS AND FLOOR COVERINGS

SUBJECT: flooring

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 X 11, glossy paper back with illustration and pictures, 96 pages

AUTHOR:

PUBLICATION DATE: 1984

SOURCE: Ortho Books
Chevron Chemical Company
Consumer Products Division
575 Market Street
San Francisco
CA 94105

ABSTRACT: Covers lots of floor finishes and installation instructions.

COMMENTS: Practical information, good illustrations, mostly of use to do-it-yourselfers and subtrades. Has how-to instructions on installing various floorings.

TITLE: FLOORING - HOW TO PLAN, INSTALL AND REPAIR

SUBJECT: flooring

PUBLICATION/VIDEO: publication

TYPE: 112 page, soft cover book (8 1/2 x 11) with illustrations and pictures

AUTHOR: Bill Tanler

PUBLICATION DATE: 1982

SOURCE: Sunset Books
Lane Publishing Co.
Menlo Park, California

ABSTRACT: In this book , guidelines for flooring selection are considered for wood, resilient, ceramic tile, masonry, and carpeting. How-to instructions with illustrations are given for the above types of floors. Techniques to repair sagging or squeaking floors and repairs to various floor finishes are given.

COMMENTS: Book oriented towards homeowners, do-it-yourselfers but may be of interest to some contractors. Clean, practical illustrations and descriptions should be of particular interest to subtrades.

PUBLICATIONS/VIDEOS DEALING WITH

FOUNDATIONS

TITLE: DETAIL DRAWINGS FOR PRESERVED WOOD FOUNDATIONS

SUBJECT: PWF, foundations

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 x 11, 3 ring binder perforated, 24 pages, illustrated

AUTHOR:

PUBLICATION DATE: 1986

SOURCE: Canadian Wood Council
55 Metcalfe Street
Ottawa, Ontario

ABSTRACT: This publication shows various drawings of details related to PWF construction. The drawings shown should not be considered standards but be used as guides to acceptable practice.

COMMENTS: Well illustrated and of particular interest to builders but also to basement subtrades.

TITLE: AVOIDING CONCRETE PROBLEMS

SUBJECT: concrete

PUBLICATION/VIDEO: video

TYPE: VHS 22 min. English & French

AUTHOR: CMHC

PUBLICATION DATE:

SOURCE: CMHC Builder's Workshops

ABSTRACT: Residential concrete placement, oriented towards avoiding typical problems.

COMMENTS: Specifically designed for general contractors. Good detail.

TITLE: PRESERVED WOOD FOUNDATIONS

SUBJECT: PWF, foundations

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 x 11, 3 ring binder perforated, 40 pages (illustrated)

AUTHOR:

PUBLICATION DATE: 1986

SOURCE: Canadian Wood Council
55 Metcalfe Street
Ottawa, Ont.

ABSTRACT: This datafile is intended to explain, comment and amplify the requirements for preserved wood foundations found in CSA standards Can 3-086-M80, code for engineering design in wood and S406-M construction of preserved wood foundations. The purpose is to assist designers, builders and others having an interest in preserved wood foundations to design and construct these foundations in accordance with the national building code of Canada and the applicable CSA standards.

COMMENTS: Good basic technical information on PWF. Of particular interest to builders intending to use the PWF system for their constructions.

TITLE: CANADIAN BUILDING DIGEST NO.128 (128F IN FRENCH), ADFREEZING AND FROST HEAVING OF FOUNDATIONS

SUBJECT: foundation damage from frost heaving

PUBLICATION/VIDEO: publication

TYPE: 4 page brochure

AUTHOR: E. Penner & K.N. Burn

PUBLICATION DATE: August, 1970

SOURCE: IRC/NRC

ABSTRACT: Uplift forces on unheated foundations such as piers are discussed including the magnitude of such forces. Measures to prevent such damage through drainage and the use of granular backfill are described. Of particular interest is a description of frost damage to foundations for built-in-garages that are not carried to a sufficient depth below grade.

COMMENTS: Although somewhat technical, it deals with a common building problem and has been helpful in the past in answering technical enquiries on frost damage to foundation.

TITLE: CANADIAN BUILDING DIGEST NO.13 (13F IN FRENCH), HOUSE BASEMENTS

SUBJECT: insulating house basements, avoiding moisture damage

PUBLICATION/VIDEO: publication

TYPE: 4 page brochure

AUTHOR: C.R. Crocker

PUBLICATION DATE: January, 1961

SOURCE: IRC/NRC

ABSTRACT: Facing ground moisture from the exterior and indoor air moisture/condensation from the inside, a technique is presented to insulate basement walls from the inside while avoiding moisture accumulation (and deterioration of insulating value and the materials themselves).

COMMENTS: Still technically correct approach for interior insulation and wall finishing. (Note the addition to this cbd dated feb. 1974 At the bottom of page 4) (aussi disponible en français)

TITLE: LES FONDATIONS DE BÉTON; PROBLEMS, CAUSES ET SOLUTIONS

SUBJECT: fondations (béton coulé), fissuration, éffritement

PUBLICATION/VIDEO: publication

TYPE: 16 pages, 8 1/2 x 11 brochure illustrée

AUTHOR:

PUBLICATION DATE: 1986

SOURCE: SCHL

ABSTRACT: Ce guide cerne les causes des problèmes reliés aux murs de fondation, aux dalles de sous-sol et aux dalles de garage, et propose des solutions. Les solutions avancées visent le béton coulé, mais ces principes valent également pour les blocs de béton.

COMMENTS: Description de problèmes communs avec les fondations de béton. Présenté sous format d'énumération de problèmes, cause(s) et solution(s). D'intérêt particulier pour les constructeurs et les sous-traitants en construction de fondation.

TITLE: CONCRETE FOUNDATIONS

SUBJECT: foundations (cast-in-place) cracks, spalling, leakage

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 x 11, 16 page booklet with illustrations

AUTHOR:

PUBLICATION DATE: 1986

SOURCE: CMHC

ABSTRACT: This guide identifies causes and provides solutions to problems in foundation walls, basement slabs and garage slabs. The recommended solutions are for poured concrete construction but the principles can also be applied in general to concrete block construction.

COMMENTS: Basic information on common foundation problems. Problems, cause(s) and solution(s) format. Of particular interest to builders and foundation subtrades.

TITLE: CANADIAN BUILDING DIGEST NO.234 (234F IN FRENCH), WOOD FRAME FOUNDATIONS

SUBJECT: preserved wood foundations, PWF

PUBLICATION/VIDEO: publication

TYPE: brochure

AUTHOR: A.T. Hansen

PUBLICATION DATE: September, 1984

SOURCE: IRC/NRC

ABSTRACT: Although framing for preserved wood foundations is generally similar to above ground wall framing, significant differences are required to resist earth pressure. Those vary with the height of backfill. Soil exposure conditions also require a high preservative retention for wood longevity. Dampproofing and drainage is also described and references to accepted standards and design aids are given.

COMMENTS: This is not intended as a how-to-do-it publication but is intended to provide the builder or designer with an overview of the system. (Aussi disponible en français)

PUBLICATIONS/VIDEOS DEALING WITH

FRAMING, CARPENTRY

TITLE: ROOF FRAMING - THE FIRST BOOK THAT EXPLAINS ROOF CUTTING - FROM SIMPLE TO COMPLEX

SUBJECT: roof framing, roofs

PUBLICATION/VIDEO: publication

TYPE: soft cover book, 469 pages

AUTHOR: Marshall Gross

PUBLICATION DATE: 1984

SOURCE: Craftman Book Company
6058 Corte del Cedro
Carlsbad, CA 92008

ABSTRACT: This is a guide to framing gable, dutch, tudor, california, gambrel, shed or gazebo roof - including irregular roofs that can stump even experienced roof cutters. The author takes you through every measurement and every cut on each type of roof so you understand exactly what's required... Explains how to use an inexpensive hand held calculator to figure any common, hip, valley or jack rafter length in seconds - including rafters on irregular roofs and rafter pitches or lengths that aren't in any rafter table.

COMMENTS: Good book aimed at carpenters who use conventional joist and rafter framing. Of particular interest to those who specialize in custom building when unusual roof configurations may be encountered. Lots of drawings. Basic knowledge book rather than a trouble-shooting book with problems, causes and solutions.

TITLE: REPORT ON ROOF TRUSS UPLIFT (SPECIAL BULLETIN)

SUBJECT: roof truss uplift

PUBLICATION/VIDEO: publication

TYPE: 7 page brochure with illustrations

AUTHOR:

PUBLICATION DATE: October, 1980

SOURCE: CHBA

ABSTRACT: Describes the causes and unpredictable nature of roof truss uplift, suggests construction techniques to minimize the effects of truss uplift and offers advice for remedial measures in cases where truss uplift has occurred. Main emphasis is on preventative measures during construction rather than remedial work.

COMMENTS: Easy to read, written in simple problem/solution style with clear illustrations.

TITLE: CANADIAN BUILDING DIGEST NO.244 (244F IN FRENCH), EFFECTS OF WOOD SHRINKAGE IN BUILDINGS

SUBJECT: effects of wood shrinkage in buildings

PUBLICATION/VIDEO: publication

TYPE: brochure

AUTHOR: A.T. Hansen

PUBLICATION DATE: February, 1987

SOURCE: IRC/NRC

ABSTRACT: Wood shrinks or expands considerably, across the grain, when drying or getting wet. Response to relative humidity alone is significant and building design must accommodate that. Effects on metal fasteners, (nail popping), floorings, sheathings, and trusses (roof truss uplift) are discussed and guidance given.

COMMENTS: Somewhat technical description of the effects of wood shrinkage as it relates to common problems in house construction i.e.Nail popping, roof truss uplift. Some preventative measures are discussed. (Aussi disponible en français)

TITLE: LE SOULEVEMENT DES FERMES DE TOIT ET LA RESPONSABILITÉ DE L'ENTREPRENEUR, SÉRIE "TECHNIQUES EN PRATIQUE"

SUBJECT: soulèvement des fermes de toit (roof truss uplift)

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 x 11, bulletin, 9 pages

AUTHOR:

PUBLICATION DATE: August, 1987

SOURCE: Fédération de la Construction du Québec
Services Technique du Plan de Garantie des Maisons Neuves
1279 boul. Charest Ouest
1er Étage
Québec, P.Q.
G1N 4K7

ABSTRACT: Ce bulletin décris les causes et la nature imprévisible du phénomène du soulèvemnent des fermes de toit. Des techniques de construction visant à réduire au minimum les effets du soulvement des fermes de toit sont suggérées. Des mesures correctives pour résoudre les problèmes où le phénomène s'est déjà manifesté sont aussi incluses. L'emphase principale est axée sur les mesures préventives que les constructeurs peuvent prendre lors de la construction plutôt que sur des mesures correctives.

COMMENTS: Façile à lire, décris simplement le problème, les causes et les solutions de soulèvement des fermes de toit. Illustrations claires.

TITLE: CARPENTRY

SUBJECT: site work (leveling), roof framing, noise control, stairways, construction in general

PUBLICATION/VIDEO: video

TYPE: 721 page, hardcover, 8 1/2 x 11 book with illustrations

AUTHOR: Leonard Koel

PUBLICATION DATE: 1985

SOURCE: American Technical Publishers, Inc.
Alsip, Illinois 60658

ABSTRACT: This book describes a wide range of construction related materials, tools, skills and various steps involved in construction from the ground up, for residential wood framed houses to high rise reinforced concrete construction.

COMMENTS: This is a good wide ranging review of carpentry and the building trade. Good illustrations. Could be very useful to smaller builders.

TITLE: LEARNING TO LIVE WITH TRUSS UPLIFT

SUBJECT: roof truss uplift

PUBLICATION/VIDEO: video

TYPE: VHS 18 min. English & French

AUTHOR: CMHC

PUBLICATION DATE: 1987

SOURCE: CMHC Builder's Workshops

ABSTRACT: How to build so as to avoid drywall problems. Specifically how to build using floating drywall corners.

COMMENTS: Oriented specifically for contractors and tradesmen. Very practical.

PUBLICATIONS/VIDEOS DEALING WITH

INDOOR AIR QUALITY, VENTILATION

TITLE: RESIDENTIAL SYSTEM DESIGN, MANUAL FOR AIR HEATING/COOLING SYSTEMS

SUBJECT: heating and air conditioning systems

PUBLICATION/VIDEO: publication

TYPE: cerlox bound metric size, 95 pages

AUTHOR:

PUBLICATION DATE: 1979

SOURCE: HRAI, 5468 Dundas St. West
Suite 226
Islington, Ont.
M9B 6E3

ABSTRACT: This manual contains practical procedures and data for the design of warm air heating and air conditioning systems for canadian homes. It covers only residential type systems but includes duct systems for residences that are built on concrete slabs on grade.

COMMENTS: Of interest to heating subtrades. Too technical to be of general interest to builders. Mostly design procedures for heating duct sizing and layout.

TITLE: CANADIAN BUILDING DIGEST NO.222 (222F in French), AIRTIGHT HOUSE AND CARBON MONOXIDE POISONING

SUBJECT: Indoor Air Quality, Combustion backdrafting

PUBLICATION/VIDEO: publication

TYPE: 4 Page Leaflet

AUTHOR: F. Steel

PUBLICATION DATE: March, 1982

SOURCE: IRC/NRC

ABSTRACT: The interaction between various heating appliances and exhaust air systems can cause serious problems unless an adequate air supply is provided by the use of a hypothetical model, the effect of the various elements in the system are analysed, and solutions suggested.

COMMENTS: While somewhat technical for laymen, the general description of the interaction of heating systems and exhaust venting should be helpful to those concerned with this problem. (Aussi disponible en français)

TITLE: VENTILATION HEALTH AND SAFETY ISSUES

SUBJECT: ventilation and high humidity levels, poor air quality, combustion backdrafting

PUBLICATION/VIDEO: publication

TYPE: 17 page booklet with illustrations

AUTHOR:

PUBLICATION DATE: 1986

SOURCE: CMHC/CHBA (Builders' Workshop)

ABSTRACT: Explains the needs for ventilation in tighter houses and discusses solutions to ventilation related problems such as high humidity levels, poor air quality and combustion backdrafting. Includes some terms and definitions and a combustion safety checklist to determine the likelihood of combustion venting problems.

COMMENTS: Good basic overview of the subject. Of interest to builders. Presented in a problem, cause(s) and solution(s) format. (Aussi disponible en français)

TITLE: R-2000 - THE BETTER BUILT HOUSE: #14 - VENTILATION SYSTEMS

SUBJECT: R-2000: ventilation

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: Overview of mechanical ventilation requirements in an air tight house.

COMMENTS: Good overview with critical details.

TITLE: R2000 - THE BETTER BUILT HOUSE: #15 - HEAT RECOVERY VENTILATORS

SUBJECT: R-2000: HRV characteristics; testing and installation

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: Overview of what is a heat recovery ventilator, how it is tested and critical details of performance installations.

COMMENTS: Good introduction to HRV

PUBLICATIONS/VIDEOS DEALING WITH

LANDSCAPING

TITLE: SOFT LANDSCAPE GRADING #1

SUBJECT: landscaping for new construction

PUBLICATION/VIDEO: video

TYPE: VHS

AUTHOR: CMHC

PUBLICATION DATE:

SOURCE: CMHC video series

ABSTRACT: Slide show on video. Description of landscaping problems and proposed solutions during new residential construction: soil & plantation.

COMMENTS: Useful for general contractors. Probably too simple for landscape architects.

TITLE: HARD LANDSCAPE GRADING #2

SUBJECT: landscaping

PUBLICATION/VIDEO: video

TYPE: VHS 30 min. English

AUTHOR: CMHC

PUBLICATION DATE:

SOURCE: CMHC video series

ABSTRACT: Slide show on video. Description of landscaping problems and proposed solutions during new construction: sidewalks & driveways. Many technical details.

COMMENTS: Only 20% is applicable to residential construction; but many good details.

PUBLICATIONS/VIDEOS DEALING WITH

MOISTURE, AIR BARRIERS, VAPOUR BARRIERS

SUBJECT: MOISTURE, AIR BARRIERS, VAPOUR BARRIERS

TITLE: BUILDING PRACTICE NOTE NO.54 (54F IN FRENCH), THE DIFFERENCE BETWEEN A VAPOUR BARRIER AND AIR BARRIER

SUBJECT: condensation, air barrier, vapour barrier

PUBLICATION/VIDEO: publication

TYPE: brochure

AUTHOR: R.L. Quirouette

PUBLICATION DATE: July, 1985

SOURCE: IRC/NRC

ABSTRACT: Moisture is carried into concealed spaces in walls and roofs through diffusion and as a result of air leakage. Vapour barriers are designed to resist diffusion which accounts for only a small portion of the total moisture. Air barriers are needed to resist air pressure differences that may exist on either side of it. This paper defines an air barrier, and suggests performance requirements.

COMMENTS: Provides a good general description of the relative function of an air and vapour barrier. (Aussi disponible en français)

SUBJECT: MOISTURE, AIR BARRIERS, VAPOUR BARRIERS

TITLE: CANADIAN BUILDING DIGEST NO.231 (231F IN FRENCH), MOISTURE PROBLEMS IN HOUSES

SUBJECT: moisture problems, condensation

PUBLICATION/VIDEO: publication

TYPE: 6 page brochure

AUTHOR: A.T. Hansen

PUBLICATION DATE: March, 1984

SOURCE: IRC/NRC

ABSTRACT: Moisture sources from occupants and from the soil are outlined. If sources add moisture faster than the air change is carrying it away, the indoor humidity rises and can lead to condensation problems on windows and other cold indoor surfaces, and in the insulated envelope structure. Attention to air leaks is emphasized to control moisture problems in the insulated envelope structure, along with ventilation to control the humidity itself.

COMMENTS: Somewhat theoretical discussion on moisture problems in houses and is of special interest to builders that need to understand the dynamics of moisture generation/sources, moisture removal, surface condensation and hidden condensation. (Aussi disponible en français)

TITLE: AIR-VAPOUR BARRIERS

SUBJECT: Air barriers, vapour barriers, air-vapour barriers, material choice and installation guide

PUBLICATION/VIDEO: publication

TYPE: 84 page, soft cover, 8 - x 11 booklet with illustrations

AUTHOR: D. Eyre and D. Jennings

PUBLICATION DATE: January, 1983 (fourth edition)

SOURCE: Energy, Mines & Resources Canada

ABSTRACT: This booklet describes various construction details and shows with illustrations and explanations how to install a continuous air/vapour barrier to provide improved airtightness in houses. Details shown include: -basement wall/floor joints, -crawlspaces, -foundation wall/header/subfloor area, -partitions, -overhangs, split level ceilings and floors, -doors and windows, -stairwells, -bathtubs, -penetrations into the attic and others.

COMMENTS: Of interest to builders. "Section I, (theory and building physics) in this publication fails to emphasise the importance of the air barrier relative to the vapour barrier with regards to the prevention of moisture problems within the walls and roof space. Acoustical sealant is now recognized as the one type of sealant that will bond durably to polyethylene and this is not stated precisely in the beginning of section II." Otherwise this publication has very good drawings of various air/vapour barrier (AVB) installation details and good drawings demonstrating ways to achieve AVB continuity in difficult areas. (Aussi disponible en français)

SUBJECT: MOISTURE, AIR BARRIERS, VAPOUR BARRIERS

TITLE: ENERGY DESIGN UPDATE, MOISTURE IN HOUSES: CONTROL TECHNOLOGY FOR DESIGNERS AND BUILDERS

SUBJECT: moisture

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 x 11, 34 pages, soft cover with illustrations and pictures

AUTHOR:

PUBLICATION DATE: 1986

SOURCE: Cutter Information Corp.
1100 Massachusetts Avenue
Arlington, MA 02174

ABSTRACT: This special report on moisture in housing presents important engineering principles that homebuilders must understand. The behaviour of moist air, controlling humidity for health, ventilation system control strategies, air leakage and moisture damage are among the discussed subjects.

COMMENTS: Good information for builders interested in understanding moisture problems. Refers to 4 canadian moisture troubled cases describing the symptoms, the investigative process used to determine the causes, describes the causes and the solutions implemented. Caution: -"This is an American publication and warm climate conditions are discussed where the vapour barrier is treated differently than in cold climates such as Canada's."

TITLE: PREVENTION AND CONTROL OF DECAY IN HOMES

SUBJECT: wood rot prevention, moisture problems

PUBLICATION/VIDEO: publication

TYPE: hard cover, 8 1/2 x 11, 148 pages with pictures and drawings

AUTHOR: Arthur F. Verrall; Terry L. Ambu

PUBLICATION DATE: 1979

SOURCE: U.S. Department of Agriculture
Forest Services & Department of Housing and Urban Development.

ABSTRACT: This book describes the wood decay processes and provides explanations with regards to the conditions that promote deterioration. Prevention techniques from rain wetting, condensation control, wood preservatives and tips on caring for a house after construction.

COMMENTS: Good for design tips to avoid accelerated deterioration of wood exterior finish components. The first three chapters may be too technical but the remainder of the book is well illustrated and shows the consequences of poorly designed or built construction details.

TITLE: BUILDING PRACTICE NOTE NO. 57 (57F IN FRENCH), THE VENTILATION OF INSULATED ROOFS

SUBJECT: condensation

PUBLICATION/VIDEO: publication

TYPE: brochure

AUTHOR: Y.E. Forgues

PUBLICATION DATE: October, 1985

SOURCE: IRC/NRC

ABSTRACT: The importance of reducing the movement of moisture from the living areas to the roof space is stressed. The relative importance of the location of roof vents in the attic space is emphasized to take advantage of both wind effects and stack action. It is noted that although the vents may not be able to carry away much moisture in cold weather, their assistance in removing moisture as the air temperature rises allows the wood to dry before decay is initiated.

COMMENTS: Provides a reasonable summary of the mechanisms that cause air flow through attics and other roof spaces, and the causes of moisture deposition. (Aussi disponible en français)

PUBLICATIONS/VIDEOS DEALING WITH

ROOFING

TITLE: GOOD APPLICATION MAKES A GOOD ROOF BETTER

SUBJECT: Asphalt shingle roofs. A practical guide on how to apply asphalt shingles for maximum life and all-weather protection

PUBLICATION/VIDEO: publication

TYPE: 33 page (6" x 8 1/2") booklet with illustrations

AUTHOR:

PUBLICATION DATE: 1985

SOURCE: Asphalt Roofing Manufacturers Association (U.S.)

ABSTRACT: This booklet deals with asphalt shingle roofs only. It describes roof deck preparation, valley flashings, and application of the shingles.

COMMENTS: Of interest to builders and roofers. Basic tips of trade on asphalt shingles application. Concise and clear. May conflict with canadian codes with regards to low sloped roofs.

TITLE: CANADIAN BUILDING DIGEST NO.211 (221F IN FRENCH),BITUMINOUS ROOFING MEMBRANES, PRACTICAL CONSIDERATIONS

SUBJECT: built-up roofs, roofs

PUBLICATION/VIDEO: publication

TYPE: 4 page brochure

AUTHOR: R.G. Turenne

PUBLICATION DATE: July, 1980

SOURCE: IRC/NRC

ABSTRACT: Basic discussion of the essential elements required to provide good built-up roofs. Discusses the properties of bitumen and felts and the importance of good workmanship. Describes typical roofing problems and how they can be avoided.

COMMENTS: Although somewhat technical, the digest contains good general information of practical use to roofing subcontractors. (Aussi disponible en français)

TITLE: LA POSE ET L'ENTRETIEN DES COUVERTURES

SUBJECT: couvertures (roofs)

PUBLICATION/VIDEO: publication

TYPE: 164 pages, 9 X 5, reliure spirale, illustrée

AUTHOR: Donald R. Brann

PUBLICATION DATE: 1987

SOURCE: Collection Vis et Clous (dirigée par Yves Mondoux)
Québec Agenda
200 Avenue Lambert
Beauceville, PQ
G0M 1A0

ABSTRACT: Ce livre décris les étapes à suivre pour couvrir divers types de toits. Parmis les détails discutés l'on retrouve les solins de noues; de lucarnes; de cheminées, les déflecteurs de cheminées et comment poser les bardeaux fatières. La pose de bardeaux d'asphalte, de fibre de verre, de bois ainsi que les couvertures d'ardoise; métallique; à couches multiples et en rouleau est discutée.

COMMENTS: Manuel d'information de base pour les bricoleurs ou les apprentis du métier. Beaucoup d'illustrations.

PUBLICATIONS/VIDEOS DEALING WITH

SPACE HEATING, WATER HEATING

TITLE: RESIDENTIAL AIR SYSTEM DESIGN MANUAL

SUBJECT: ventilation, indoor air quality

PUBLICATION/VIDEO: publication

TYPE: 3 ring binder, 187 pages, with illustrations

AUTHOR:

PUBLICATION DATE: December, 1986

SOURCE: Heating Refrigerating and Air Conditioning Institute of Canada
5468 Dundas Street W.
Suite 226
Islington, Ontario
M9B 6E3

ABSTRACT: This manual provides a method for designing residential ventilation systems, heating and cooling systems and combined ventilating, heating and cooling systems. Coverage is quite comprehensive, and these are a few main points discussed: -ventilation for air quality, -design for dedicated ventilation systems and for integration with other systems, -duct installation, -design of forced air heating, ventilation and cooling systems and layout procedures, -heating and cooling equipment selection. Worked design examples are included along with design charts and tables.

COMMENTS: Of particular interest to the ventilation and heating contractors. Too technical for general contractors.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #13 MECHANICAL SYSTEMS & THE R-2000 HOME

SUBJECT: R-2000: mechanical systems

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: General principles of closed combustion heating and continuous mechanical ventilation systems. Stress on importance of increased involvement of the builder.

COMMENTS: Not much on construction details.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #16 HEATING SYSTEMS

SUBJECT: R-2000: heating systems

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Serive
Box 200, Station, Q
Toronto, Ontario
M4T 2T1

ABSTRACT: General overview of efficient heating systems and their integration into the ventilation system.

COMMENTS: Not much construction detail.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #17 - DOMESTIC HOT WATER & INTEGRATED SYSTEMS

SUBJECT: R-2000: DHW & integrated systems

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario Customer Service
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: A look at new ways of providing domestic hot water; including space heating and DHW integration. Mention of wood heating.

COMMENTS: Teaser of new appliances and systems. Not much construction detail.

PUBLICATIONS/VIDEOS DEALING WITH

WINDOWS AND DOORS

TITLE: L'INSTALLATION DES PORTES ET FENETRES - Problèmes, causes et solutions

SUBJECT: installation des portes et fenêtres

PUBLICATION/VIDEO: publication

TYPE: cahier de 16 pages avec illustrations

AUTHOR:

PUBLICATION DATE: 1986

SOURCE: SCHL

ABSTRACT: Ce guide cerne les causes des problèmes types et leur trouve des solutions. Il couvre l'installation des portes intérieures et extérieures, des portes-fenêtres (portes patio), des fenêtres fixes et des fenêtres ouvrantes, mais ne traite pas des portes de garage, des lanterneaux (puits de lumières), de la quincaillerie ni des dispositifs de verrouillage.

COMMENTS: Présentation très simple sous forme de problèmes, causes et solutions.

TITLE: DOORS & WINDOW INSTALLATION

SUBJECT: doors and windows installation

PUBLICATION/VIDEO: publication

TYPE: 16 pages, 8- x 11 booklet with illustrations

AUTHOR:

PUBLICATION DATE: 1986

SOURCE: CMHC

ABSTRACT: This guide identifies the causes of and solutions to typical problems. It covers the installation of exterior and interior doors, patio doors, and fixed and operating window units. It does not include garage doors, skylights, hardware or locking devices.

COMMENTS: Very simple presentation with problem description, cause(s) and solutions. Useful to builders.

TITLE: TROUBLE-FREE WINDOWS, DOORS AND SKYLIGHTS

SUBJECT: windows, doors and skylights

PUBLICATION/VIDEO: publication

TYPE: 66 pages, booklet with 45 diagrams

AUTHOR: Ken Rauch

PUBLICATION DATE: 1984

SOURCE: CMHC Cat. No. 17-24/1984E

ABSTRACT: A description of the general techniques used in installing windows, doors and skylights plus the principles underlying their successful performance

COMMENTS: Basic information on window and door installation, lots of illustrations. Basic knowledge text book rather than a problem solution type.

TITLE: CONSEILS PRATIQUES POUR L'INSTALLATION DES PORTES, FENETRES ET LANTERNEAUX SANS PROBLEMES

SUBJECT: fenêtres, portes et lanterneaux

PUBLICATION/VIDEO: publication

TYPE: 66 pages, 45 illustrations

AUTHOR: Ken Rauch

PUBLICATION DATE: 1984

SOURCE: SCHL

ABSTRACT: Une description générale des techniques d'installations de fenêtres, portes et lanterneaux et des principles qui en assurent un bon fonctionnement.

COMMENTS: Information de base sur l'installation des portes et fenêtres, beaucoup d'illustrations et facille à lire. Contient des informations générales plutôt que de traiter de problèmes, causes et solutions.

TITLE: R-2000 - THE BETTER BUILT HOUSE: #11 - WINDOWS AND DOORS

SUBJECT: R-2000: windows and doors

PUBLICATION/VIDEO: video

TYPE: VHS 15 min. English only

AUTHOR: TV Ontario

PUBLICATION DATE: 1987

SOURCE: EMR

TV Ontario
Box 200, Station Q
Toronto, Ontario
M4T 2T1

ABSTRACT: Overview of the energy aspects of windows and doors. Emphasis on air tight windows and air tight installation.

COMMENTS: Good principles, lack of detail to help contractors really evaluate windows.

PUBLICATIONS/VIDEOS DEALING WITH

MISCELLANEOUS SUBJECTS

TITLE: PORTLAND CEMENT PLASTER (STUCCO) MANUAL

SUBJECT: stucco, exterior finishes

PUBLICATION/VIDEO: publication

TYPE: 8 1/2 x 11, 3 ring binder perforated, 31 pages, pictures

AUTHOR:

PUBLICATION DATE: 1980

SOURCE: Portland Cement Association
5420 Old Orchard Road
Skokie, Illinois 60077

ABSTRACT: This publication provides technical information on the materials used in the making of stucco, the bases on which to apply it, mixtures, how to apply stucco and also describes some special applications. A glossary of plastering terms and a table of problems their causes and remedies are also included.

COMMENTS: May be too technical for some trades but should be read by stucco installers, also of value to builder's on site supervisors where stucco is used. Few illustrations. There are conflicts with canadian requirements. This publication is not as builder friendly as the others in this catalogue.

TITLE: BUILDING PRACTICE NOTE NO.35 (35F IN FRENCH), RECOMMENDATIONS FOR IMPROVING THE SAFETY OF STAIRS

SUBJECT: home safety, stairs

PUBLICATION/VIDEO: publication

TYPE: brochure

AUTHOR: J.L. Pauls

PUBLICATION DATE: June, 1982

SOURCE: IRC/NRC

ABSTRACT: A number of recommendations are provided for the improvement of stair safety both for new and existing stairs. The significance of tread geometry, and tread surface characteristics are discussed as well as adequate design for lighting, handrails and other features that impact on stair safety.

COMMENTS: Deals with existing and new buildings, few illustrations. (Aussi disponible en français)

TITLE: BUILDING PRACTICE NOTE NO.44 (44F IN FRENCH), HOW TO REDUCE NOISE TRANSMISSION BETWEEN HOMES (APARTMENTS)

SUBJECT: sound control

PUBLICATION/VIDEO: publication

TYPE: 4 page brochure

AUTHOR: A.C.C. Warnock

PUBLICATION DATE: July, 1983

SOURCE: IRC/NRC

ABSTRACT: Where dwellings are separated by a common wall or floor system, the sound from one is carried to another in a variety of ways. Sound transmission depends not only on the design of the assembly but the opportunity for transmission around it by flanking paths and the presence of holes, cracks and other defects. Various assemblies are described in terms of their potential sound resistance, and how this can be maximized in practice by attending to construction details.

COMMENTS: Good basic description of sound transmission's nature as well as practical means of achieving appropriate sound resistance levels. Of interest to builders and those trades involved in the construction of such separations. (Aussi disponible en français)

APPENDIX

SELECTION OF PUBLICATIONS AND VIDEOS FOR INCLUSION IN THIS CATALOGUE

Selection of Publications and Videos for Inclusion in This Catalogue

In reviewing publications, the following criteria were used as guidelines in forming a judgement as to whether a particular publication should be a candidate for inclusion in this catalogue:

- The subject matter should be relevant to problems and concerns likely to be currently relevant to a significant portion of mainstream builders of new housing.
- The subject should be treated in a practical, "hands-on" manner as opposed to research reports or theoretical analyses.
- The publication should preferably be aimed at a builder or subcontractor audience as opposed to the do-it-yourself or homeowner audience (although it is recognized that some publications aimed at these latter audiences would also be useful and informative to builders).
- Preference should be given to publications from Canadian sources or at least those relevant to Canadian codes, climatic conditions and building practices.
- **The publication should be technically correct.**

The same criteria were applied in reviewing audio/visual materials. In addition it was arbitrarily decided that only materials available in video cassette form would be considered since it was felt to be unlikely that most builders or subcontractors would take the trouble to obtain and set up a slide projector or movie projector.

Despite an extensive search of library electronic databases and mailing of requests to a wide variety of potential sources of such material, it is recognized that the present catalogue likely omits several worthy publications and videos which meet the above criteria. Any reader knowing of such material is invited to provide information on how it may be obtained to -

The Manager
Canadian Housing Information Centre (CHIC)
Canada Mortgage and Housing Corporation
National Office
Montreal Road
Ottawa, Ontario
K1A 0P7

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